

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
23 June 2005 (23.06.2005)

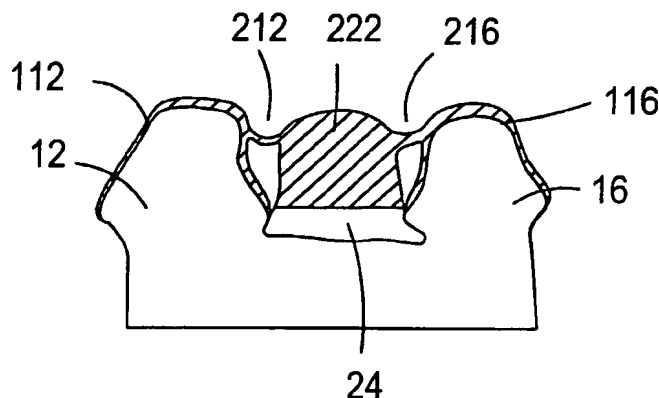
PCT

(10) International Publication Number  
**WO 2005/055861 A3**

- (51) International Patent Classification<sup>7</sup>: **A61C 13/00**
- (21) International Application Number:  
PCT/GB2004/005064
- (22) International Filing Date: 1 December 2004 (01.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
0328239.9 5 December 2003 (05.12.2003) GB
- (71) Applicant (for all designated States except US): **RENISHAW plc** [GB/GB]; New Mills, Wotton-under-Edge, Gloucestershire GL12 8JR (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **WORKMAN, Nigel, Stephen** [GB/GB]; 6 The Spinney, Bradley Stoke, Bristol South, Gloucestershire BS32 8ES (GB). **BROTHERS, Brian, Timothy** [GB/GB]; The Bristol Crown Company Limited, Unit 7, Ferry Steps Industrial Estate, Albert Road, St Philips, Bristol BS2 0XW (GB).
- (74) Agents: **FOWLER, Maria, Jayne et al.**; Renishaw plc, Patent Department, New Mills, Wotton-under-Edge, Gloucestershire GL12 8JR (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**  
— of inventorship (Rule 4.17(iv)) for US only
- Published:**  
— with international search report  
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: MANUFACTURE OF DENTAL PROSTHESES



(57) Abstract: A method of determining the shape of a dental prosthesis is disclosed comprising, scanning at least a connecting portion (14) of a preparation (10), wherein the preparation (10) comprises a first anchor (12) and a connecting portion (14) connected thereto, forming a physical model on the connecting portion (14) to produce a pontic (22), and scanning at least the pontic (22) whereby the surface of the first anchor (12) is also scanned during a scanning step whereby the scanning steps can be carried out in either order. The preparation (10) may be scanned to provide data concerning relative locations of the first anchor (12) and connecting portion (14), which may be used to align data obtained during the scanning steps. Also disclosed is a method of producing a model of a dental prosthesis and a method of manufacturing a dental prosthesis.



**(88) Date of publication of the international search report:**

18 August 2005

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*